



# DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT LOGISTICS SUPPORT AGENCY



## Defense Logistics Agency: Fulcrum For Greening DoD

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# Agenda

- **DLA Overview**
- **Why Green?**
- **DLA Supply Chain Sustainability/Hazardous Minimization Team**
- **Way Forward**
- **Conclusion**



# DLA's Mission

## Supporting the Warfighter

**DLA is DOD's combat logistics support agency. Our mission is to provide best value integrated logistics solutions to America's Armed forces and other designated customers in peace and in war, around the clock, around the world.**





# Full Spectrum Support

## Supply Chains

- Subsistence
- Fuel/Energy
- Land Systems
- Maritime Systems
- Aviation Systems
- Medical
- Clothing & Textile
- Construction & Equip



**USNORTHCOM**

## Distribution

- Defense Distribution Center
- 25 Distribution Centers



**USSOUTHCOM**



**USAFRICOM**



**USCENTCOM**



**USEUCOM**



**USPACOM**

## Theater Support

- DLA Europe
- DLA Pacific
- DLA Central
- DLA Africa

## Reutilization & Disposal

- DLA Disposition Services
- Reverse Logistics

## Stockpile

- DLA Strategic Materials

## DLA Services

- DLA Document Services
- DLA Transaction Services
- DLA Logistics Information Service





# Scope of DLA Customer Support

- A \$41 billion global enterprise
- Equates to #58 on the Fortune 500 list
- Third largest storage capacity after FedEx and UPS
- Provides 84% of all military repair parts
- Supports nearly 1,700 weapon systems
- Manages 4.8 million Items (8 supply chains)
- Foreign Military Sales
  - Sales: FY 2010: \$1.5 billion
  - Shipments: 585,000 per year
  - Supporting 118 nations
- Provides 100 % of these items to the US Military:
  - Fuels
  - Clothing and Medical Supplies
  - Food
  - Construction Material
- Worldwide Presence:
  - 26,000 Civilian, Active Duty and Reserve Employees
  - Located in 48 States and 28 Countries





# DOD Supply Chains

## DLA Aviation

### Richmond, VA

#### AVIATION: CLASS IX

- Engine Components
- Air Frames
- Flight Safety Equipment
- Aviation Lighting
- Fasteners
- Bearings
- Maps
- Environmental Products (POL, Chemicals, Gases etc)





# DOD Supply Chains

## DLA Troop Support

### Philadelphia, PA

#### SUBSISTENCE: CLASS I

- Food Service
- Produce
- Operational Rations



#### CLOTHING & TEXTILE: CLASS II

- Recruit Clothing
- Readiness
- Organizational Clothing & Individual Equipment



#### CONSTRUCTION & EQUIPMENT: CLASS IV / VII

- Facilities Maintenance
- Equipment
- Wood Products
- Safety & Rescue Equipment



#### MEDICAL: CLASS VIII

- Pharmaceutical
- Medical/Surgical
- Readiness
- Equipment







# DOD Supply Chains

## DLA Land and Maritime

### Columbus, OH

#### **LAND: CLASS IX**

- Vehicles
- USMC / Army Equipment
- Wheeled, Tracked & Heavy Vehicle Parts
- Vehicle Maintenance Kits
- Power Transmission/Engine/ Suspension Components
- Tires
- Batteries
- Small Arms Parts



#### **MARITIME: CLASS XI**

- Parts for Ships
- Parts for Submarines





# DOD Supply Chains

## DLA Energy

### Ft. Belvoir, VA

#### ENERGY: CLASS III

- DOD Executive Agent for all Bulk Petroleum
- Natural Gas, Coal, Electricity
- Aerospace Energy





# DLA Distribution

- Receive, Store, and Issue Globally
- In-transit Visibility
- Dedicated Delivery / Pure Pallets



**114 Sites  
Worldwide**



**26 Distribution  
Centers  
Worldwide**



# DLA Disposition

- Reutilization (to Military Services & DOD Special Programs)
- Transfer (to Federal Agencies)
- Donation (to State and Local Agencies)
- Sales of excess DoD property
- Contingency Operation Support
- Demilitarization
- Precious Metals Recovery
- Hazardous Waste Disposal





# Logistics Services

## DLA Strategic Materials

Strategic acquisition, storage, and sale of critical inventory located in depots throughout the United States...

## DLA Document Services

- Document imaging, reprographics services
- Office equipment (multi-function copy/print Systems)
- Electronic document, content, record management solutions

## DLA Transaction Services

- Editing / routing of DoD logistics transactions
- Network interoperability
- E-Business Services for material tracking & for monitoring supply chain metrics

## DLA Logistics Information Services

- Steward for Federal Catalog Systems
- U.S. Codification Bureau / International Cataloging
- DLA Customer Interaction Center
- IT Support for DLIS / DRMS for logistics systems ...





# DLA Regional Commands

*DLA - Pacific*



*DLA - Central*



*DLA - Europe*



*DLA - Africa*

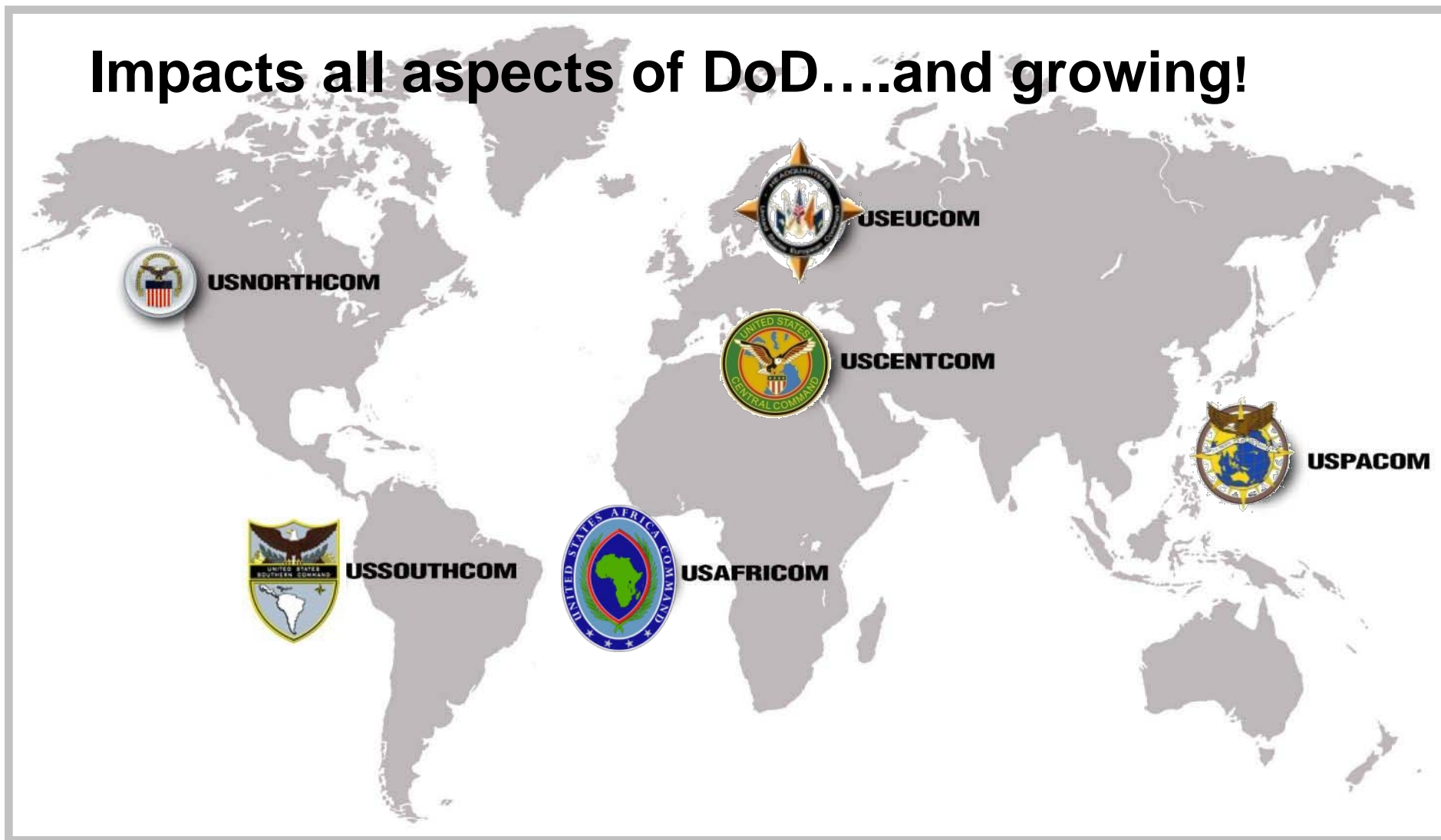


- DLA Overseas Commands Supporting EUCOM, PACOM, CENTCOM and AFRICOM
- Single Focal Point for COCOM DLA Support Issues
- Lead for DLA Theater Contingency / Exercise Planning
- Commands DLA Support Teams



# DLA = Global Influence

**Impacts all aspects of DoD....and growing!**





# Why go Green?

- To comply with Executive Orders and DoD Directives.
  - Federal Laws, regulations, Presidential Executive Orders and recent DoD Green Procurement policy call for increased procurement of “green” products.
- To promote environmental stewardship
  - Congress and the President have directed federal agencies to be good stewards of the environment. Federal agencies are now expected to conserve energy and other precious natural resources and as stewards of federal dollars, we are obligated to purchase certain items considered “green”
- To reduce operating and maintenance costs
  - Reuse or recycling items reduces disposal costs and material handling
- To reduce the hazardous waste stream
  - Eliminate part of the 2.6 billion pounds of toxic chemicals released annually in the US.





# What are “Green” Products?

- Green products are:
  - Environmentally preferable products that have a lesser or reduced effect on human health and the environment when compared to competing products or services that serve the same purpose.
  - Products that provide a lower cost based on life-cycle costs, not purchase price.
  - Products that meet the approved Environmental Attribute Code (ENAC) by being water efficient, energy efficient, low standby power, or bio-based.

*Note: This comparison may consider raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, or disposal of the product or service.*



**So... Logically, Green procurement would be the purchase of products and services with favorable energy or environmental attributes in accordance with federally-mandated "green" procurement preference programs.**



# Green Procurement Program (GPP)

- The Department of Defense's **Green Procurement Program** policy and strategy were issued in August 2004. The policy formally established a DoD Green Procurement Program (GPP).
- The Department of Defense's Green Procurement Program (GPP) is a comprehensive strategy for implementing environmentally preferred practices while sustaining the overall mission.
  - Formally establishes DoD's GPP
  - Requires documentation of objectives, targets, and actions in an installation-level plan
  - Requires that green products and services be considered as the first choice for procurements
  - Assigns responsibility to virtually every DoD employee
    - Requires implementation at the organizational level where initial purchasing requirements are defined
    - Requires GPP training and refresher training for all personnel involved in acquisitions





# GPP Products

- **Recycled content products**
- **Energy- and water-efficient products**
  - Standby power devices
  - ENERGY STAR and FEMP-designated products
  - EPEAT-registered products
  - WaterSense
- **Alternative fuel vehicles/alternative fuels**
- **Biobased products**
- **Environmentally preferable products**
- **Non-ozone depleting substances**
- **Low or non-toxic or hazardous chemicals**





## DLA Supply Chain Sustainability/Hazardous Minimization Team

- Purpose – Oversees DLA “mission-related” sustainability and hazardous minimization efforts
- Comprised of technical/quality representatives from DLA Supply Chains
- Reach out to Military Services and Federal Agencies on a regular basis
- Team meets semi-annually, more frequently as required



# DLA Aviation Hazardous Minimization and Green Products Branch

- Defense Logistics Agency (DLA) Aviation formed the Hazardous Minimization and Green Products Branch based at Defense Supply Center Richmond (DSCR) (established March 2009)
  - Mission – Facilitate the increased availability and use of green products by DLA Aviation customers
  - Primary Product Lines –
    - Federal Supply Classes:
      - 4235 – Hazardous Materials Spill Cleanup Equipment
      - 6810 - Chemicals
      - 6850 – Miscellaneous Chemical Specialties
      - 9150 – Oils, Greases: Cutting, Lubricating and Hydraulic
  - Bio-base Product Development
    - USDA printer toner pilot study
    - Analyze commercial Bio-based items



# Bio-based Product Development

- Collaboration with the National Defense Center for Energy and Environment (NDCEE)
  - Identify bio-based product manufacturers and collect technical product information for bio-based product categories designated by the Federal BioPreferred Program relevant to products managed by DLA Aviation.
  - Evaluate bio-based product technical information versus the requirements of applicable Government specifications and identify products as potential alternatives to petroleum based and non-bio-based products.
  - Perform outreach to DoD facilities to identify currently used green products and to identify opportunities to evaluate green alternatives to the currently used non-green products.
  - Perform tri-service demonstrations of green products at DoD facilities.



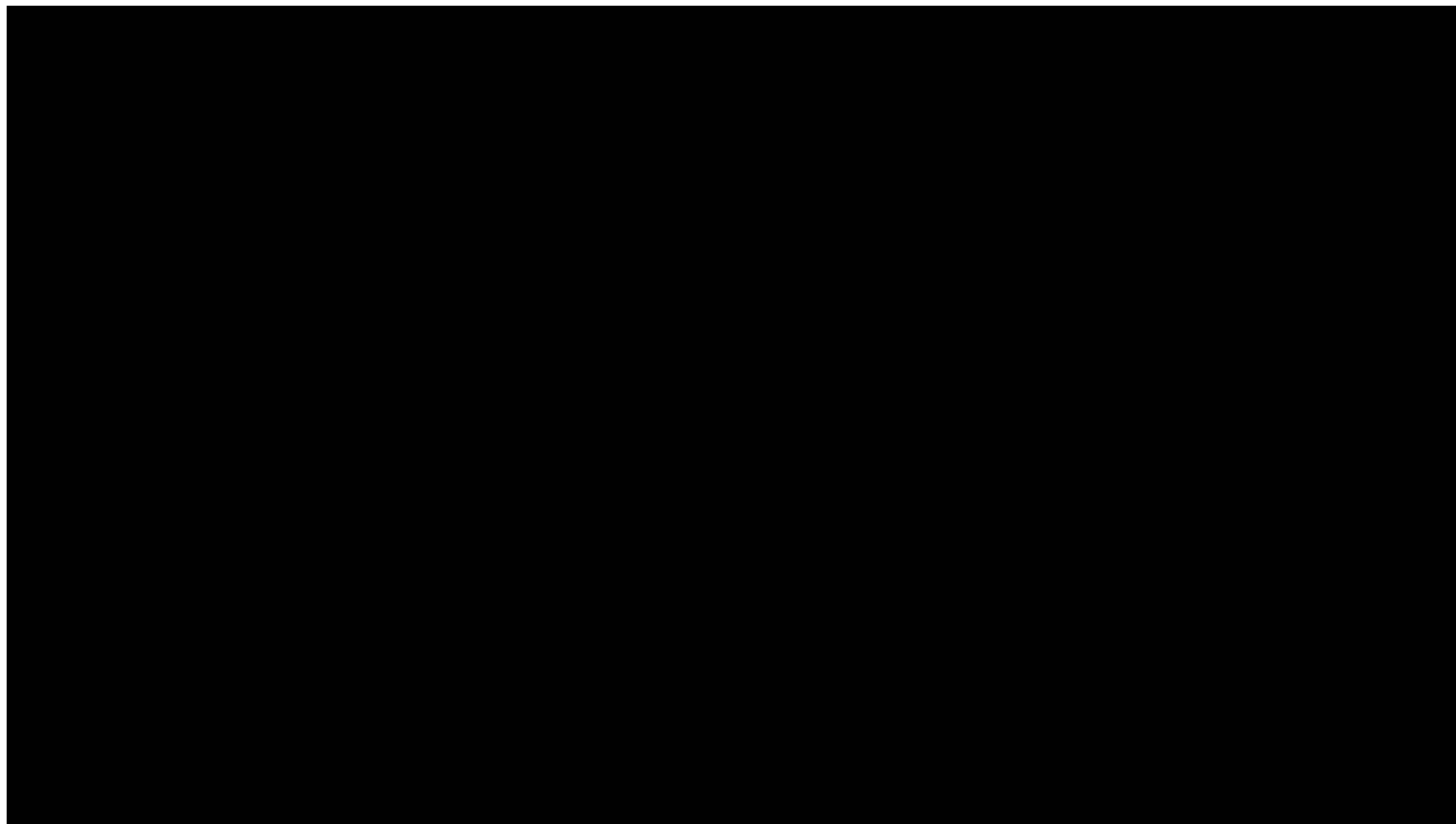
# BioPreferred Program Designated Items

<b>Round 1 Final Rule</b> <b>03/16/2006</b>	<b>1. Mobile Equipment Hydraulic Fluids</b> 2. Roof Coatings	3. Water Tank Coatings <b>4. Diesel Fuel Additives</b>	<b>5. Penetrating Lubricants</b> 6. Bedding, Bed Linens, and Towels
<b>Round 2 Final Rule</b> <b>05/14/2008</b>	<b>1. Adhesive and Mastic Removers</b> 2. Plastic Insulating Foam 3. Hand Cleaners and Sanitizers	4. Composite Panels 5. Fluid-Filled Transformers 6. Disposable Containers	7. Fertilizers <b>8. Sorbents</b> 9. Graffiti and Grease Removers
<b>Round 3 Final Rule</b> <b>05/14/2008</b>	1. 2-Cycle Engine Oils 2. Lip Care Products 3. Films 4. Stationary Equipment Hydraulic Fluids	5. Disposable Cutlery <b>6. Glass Cleaners</b> <b>7. Greases</b>	8. Dust Suppressants 9. Carpets 10. Carpet and Upholstery Cleaners
<b>Round 4 Final Rule</b> <b>05/14/2008</b>	1. Bathroom and Spa Cleaners 2. Concrete and Asphalt Release 3. General Purpose De-Icers	<b>4. Firearm Lubricants</b> 5. Floor Strippers 6. Laundry Products	<b>7. Metalworking Fluids</b> 8. Wood and Concrete Sealers
<b>Round 5 Final Rule</b> <b>10/27/2009</b>	<b>1. Chain and Cable Lubricants</b> <b>2. Corrosion Preventatives</b> 3. Food Cleaners	4. Forming Lubricants <b>5. Gear Lubricants</b> 6. General Purpose Household Cleaners	<b>7. Industrial Cleaners</b> <b>8. Multipurpose Cleaners</b> <b>9. Parts Wash Solutions</b>
<b>Round 6 Final Rule</b> <b>10/18/2010</b>	1. Disposable Tableware 2. Polystyrene Foam Recycling Products <b>3. Heat Transfer Fluids</b> 4. Ink Removers and Cleaners	5. Mulch and Compost Materials <b>6. Multi-Purpose Lubricants</b> 7. Topical Pain Relief Products	<b>8. Turbine Drip Oils</b> 9. Topical Pain Relief Products
<b>Round 7 Proposed Rule</b> <b>11/23/2010</b>	<b>1. Animal Repellents</b> 2. Bath Products 3. Bioremediation Materials 4. Compost Activators And Accelerators 5. Concrete And Asphalt Cleaners	6. Cuts, Burns, And Abrasions Ointments 7. Dishwashing Products 8. Erosion Control Materials 9. Floor Cleaners And Protectors	10. Hair Care Products 11. Interior Paints And Coatings 12. Oven And Grill Cleaners <b>13. Slide Way Lubricants</b> 14. Thermal Shipping Containers





# VIDEO CLIP

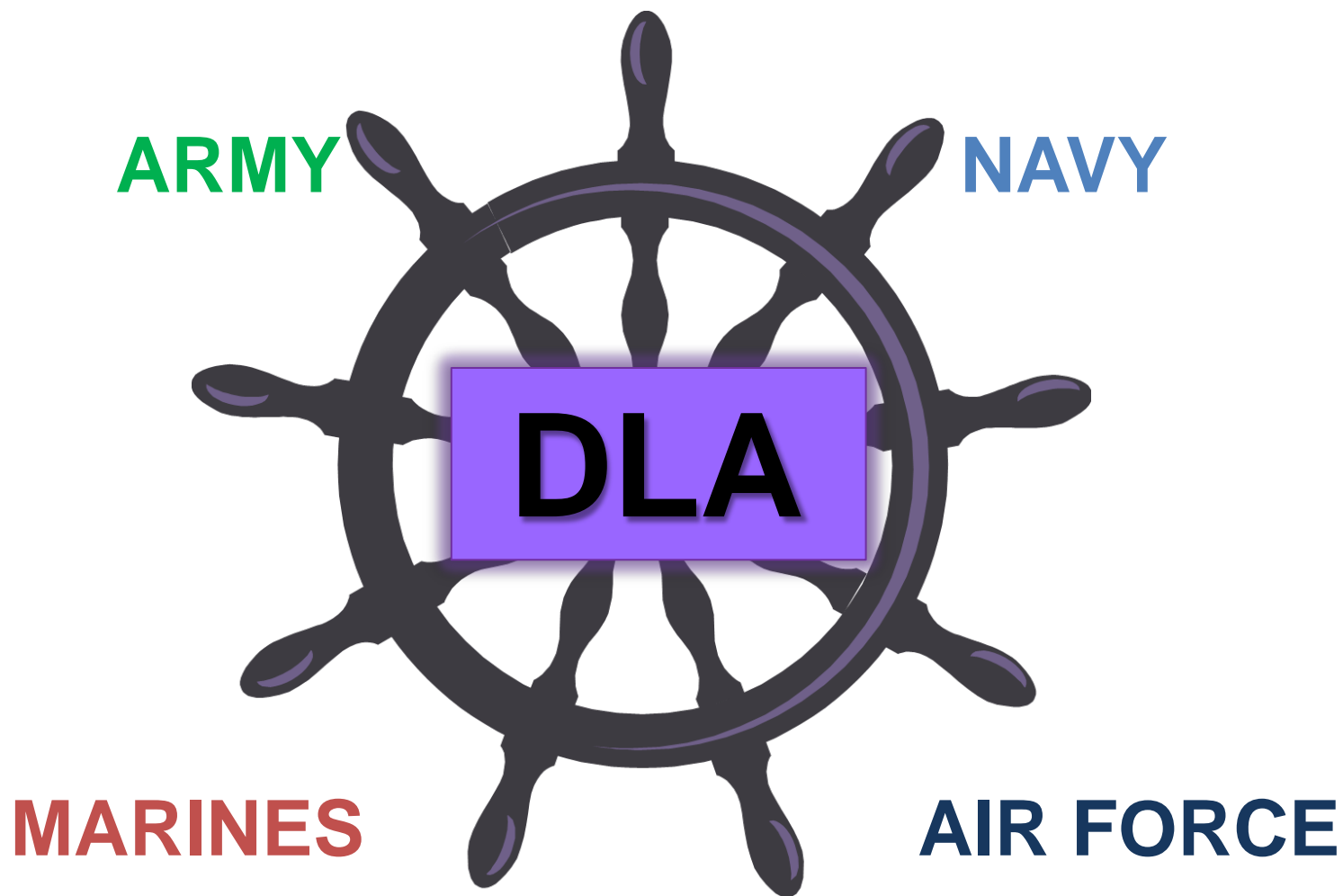


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# Way Forward

- Continue to identify green product demonstration opportunities
- Continue to pursue new projects with Military Services and Agencies that will accelerate the identification of green substitutes and alternatives.
- Work with Services to facilitate the development of new National Stock Numbers (NSNs) for Green Alternatives
- Support Acquisition Policy and Cataloguing Communities in developing new processes and cataloging strategies.





# Conclusion

- Well on track toward a comprehensive approach to addressing the need to comply with federal directives on the increased use of green products and minimize the hazardous material footprint.
- Continued collaboration across the Military Services and Federal Agencies.

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# Questions?



# Back-up Slides



# Hazardous Minimization Product Development

## P-D-680 Alternative

- New Specification (MIL-PRF-32295) developed for general cleaning application aircraft and ground support equipment
  - Type I, Low VOC, HAP-Free
- Field Testing completed at Navy, Air Force and Coast Guard operational sites. Tech Pub updates underway.
- New products
  - 1 Gallon 6850-01-576-2676
  - 5 Gallon 6850-01-576-2765
  - 55 Gallon 6850-01-576-2736



# Testing on Cleaning Grease FRC, Cherry Point, NC



Before MIL-PRF-32295



Before MIL-PRF-680



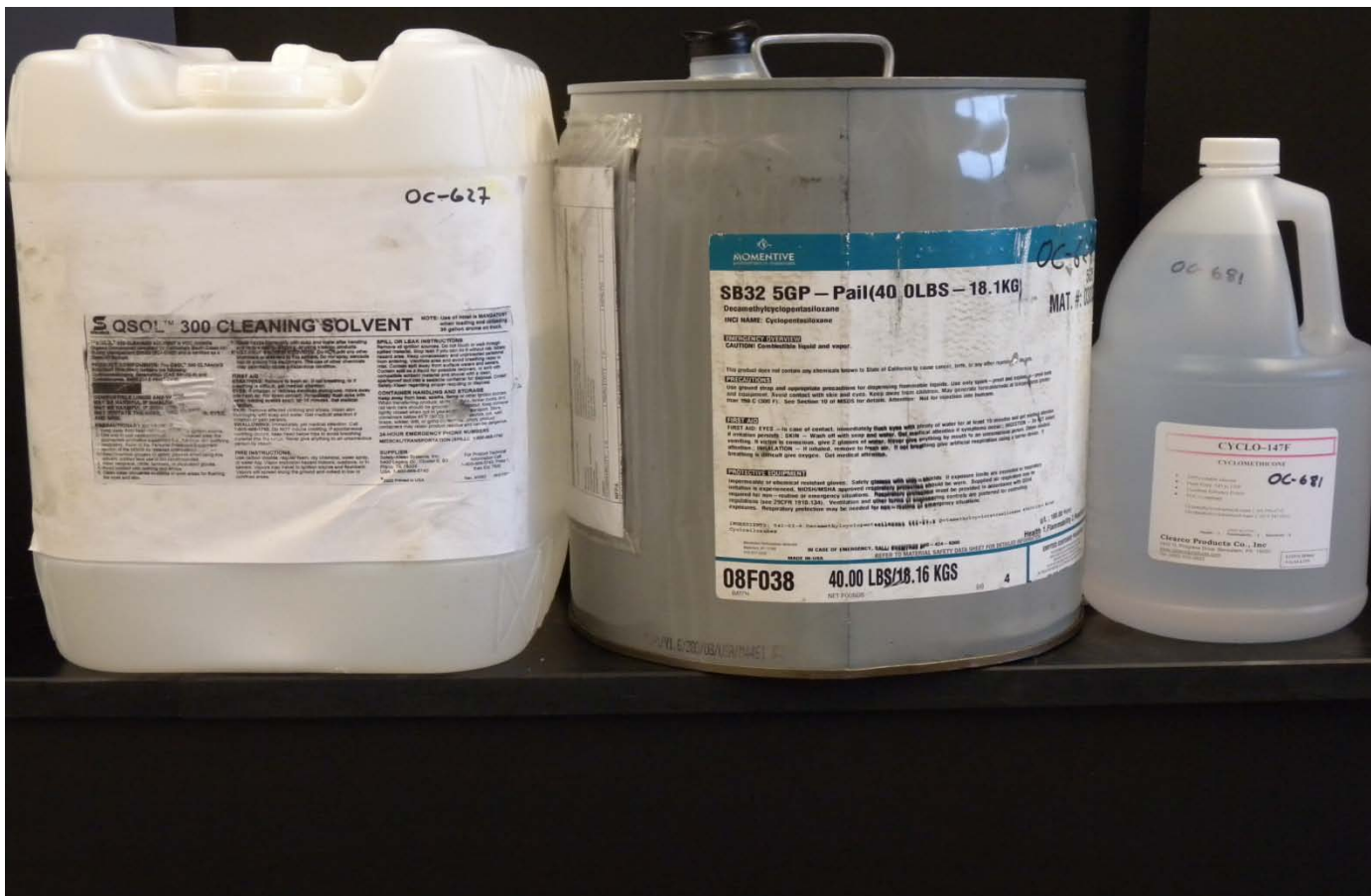
After MIL-PRF-32295



After MIL-PRF-680



# Qualified MIL-PRF-32295 Products



OC SafetyKleen QSOL 300, Clearco Products Cyclo 147F, Fluid Momentive SB32





# Hazardous Minimization Product Development

## MIL-PRF-85570 Type I Cleaners

- Evaluate currently qualified MIL-PRF 85570 Type II Cleaners in a aerosol version, pre-moistened wipe form and qualify for use; revise specification to include new class
- Prevents use of unauthorized/unqualified products which pose health, safety and aircraft corrosion problems
- Satisfy need for aircraft spot cleaner as a replacement for high aromatic solvents



# Candidate Products



**MIL-PRF-85570 Type I Pre-saturated Wipes – Foil Pouch & Plastic Tub**



**Unauthorized MIL-C-43616 aerosol (L) with candidate MIL-PRF-85570 TY I Aerosols (R)**



# Hazardous Minimization Product Development

## Canopy and Optics Cleaners

- Evaluate the feasibility of using micro fiber cloth with only water for cleaning aircraft canopies, windscreens, windows, optics and instruments without the use of chemicals
- Prevents use of unauthorized/unqualified products which pose health and safety problems
- Initial testing for haze, transmittance and clarity showed no effects on acrylic or polycarbonate materials when used with water



# Candidate Product



Microfiber cloth product offered by 3M



# Biobased Penetrating Lubricants Demonstrations

- Bio-based penetrating lubricants are being demonstrated at Fort Jackson, SC Army National Guard, Joint Base Charleston, and the Pentagon.
- Products meet the requirements of A-A-50493.



628 Logistics Readiness Squadron,  
Joint Base Charleston



Unit Training Equipment Site, South Carolina  
Army National Guard McCrady Training Center





# Biobased Sorbent Demonstrations

- Bio-based sorbent products from five manufacturers are being demonstrated at Fort Jackson, SC Army National Guard and Joint Base Charleston.



Wheeled Vehicle Mechanic School, Fort Jackson



Vehicle Maintenance -Logistics Readiness  
Squadron Joint Base Charleston

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